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## **Recent BABAR Studies of Bottomonium States**

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We present a study of the radiative transitions from decays of the Y(2S)

and Y(3S) resonances using photons that have converted into an e+e- pair, obtaining precise measurements of the branching fractions for

chi\_b1,2(1, 2P)  $\rightarrow$  gamma Y(1S) and chi\_b1,2(2P)  $\rightarrow$  gamma Y(2S) transitions and search for radiative decay to the eta\_b(1S) and eta\_b(2S) states. We present a search for the spin-singlet partner of the chibJ(1P) triplet, the hb(1P) state of bottomonium in the transitions Y(3S) $\rightarrow$ pi0 hb and Y(3S) $\rightarrow$ pi+pi-hb using a data sample of 122 million Y(3S) events.

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